

**Botany Evolution LLC**

2510 Kirby Circle NE

Palm Bay, FL 32945

321-802-4583

**Certificate Of Analysis****Sample Identification Information****Date of Analysis** 11/2/2020**Sample:** S0982**Product Name** GOLD HEADHUNTER**Lot#** SIK200921GH**Country of Origin** SOLOMON ISLANDS**Country of Processing** SOLOMON ISLANDS**Manufacture Date** 09/21/20**Best By Date** 09/21/23**General Product Specifications****Product Species** Piper Methysticum**Part Used** Root**Common Names** Kava kava, Awa, Yagona**Appearance** Yellow, beige powder**Analyzed Characteristics****Specification****Result****Test Method****Standardization**

2-17% Kavalactones

13.41%

HPLC

**Identification**

Complies by HPLC

Conform

HPLC

**Kavalactone Profile**

Noble

PASS

HPLC

**Mesh Size**

60-30

60

Sieve

**Color**

Beige to Yellow

Pass

Visual

**Odor**

Pass

Organoleptic

**Taste**

Pass

Organoleptic

**Chemotype**

243561

HPLC

**K/DHM**

2.1

Calculation

Kavalactones	Code	Peaks Ref. (elution order)	Correction Factor	Area *	Area %	Corrected Kavalactones	Chemotype Identifier
Standard Kavain	K			2359.087			
Methysticin	M	1	2.21	1013.242	9.25%	1.24%	6
Dihydromethysticin	DHM	2	3.38	808.538	7.38%	1.46%	5
Kavain	K	3	1	5382.985	49.13%	3.00%	4
Dihydrokavain	DHK	4	3.08	2176.38	19.86%	5.11%	2
Desmethoxyyangonin	DMY	5	2.52	737.38	6.73%	1.13%	1
Yangonin	Y	6	3.12	838.421	7.65%	1.48%	3
Kavalactones			<b>Total:</b>	<b>10956.946</b>	<b>100.00%</b>	<b>13.41%</b>	<b>243561</b>

\*See data in attachment HPLC1100 Agilent Certificate with Chromatogram graph.

This result are in house tested and the best of our knowledge and experience. Using calibrated equipment.

We are dedicated to offer the best Quality of Botanical products on the market. We test and stand behind our products.

Disclaimer\* the test results are accurate to the best of our knowledge and are based upon reputable laboratory and industry standard testing methods.

These results should not be used as a final determination for use in a finished product. It is recommended that you verify these test results with an

in house quality control department or obtain an additional independent third party lab to verify that this material meets specifications

Botany Evolution, its board of directors, contract laboratories, employees, and affiliates are held harmless from any loss or damages resulting from the

use or misuse of this document. The appropriate use of this product is the sole responsibility of the user of the purchasing party.

Chemist

*Mate Younger*

Date

*11/3/20*

SAMPLE S0982  
 Vial 14

0.75703g/50mL

wavelength 246 nm

C:\CHEM32\1\DATA\KAVA\_11\_02\_2020\_15MINSTDTESTMETHOD 2020-11-02 15-07-37\01->

SEQUENCE C:\CHEM32\1\DATA\KAVA\_11\_02\_2020\_ ->

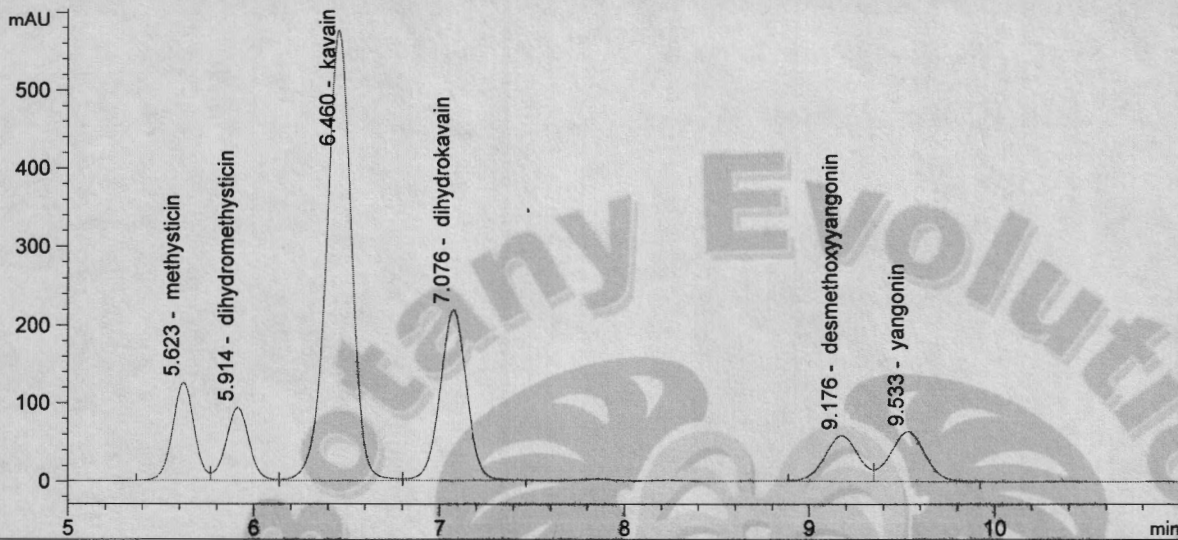
Injection date 11/2/2020

Injection time 7:42:40 PM

Acq. operator KRISTL

Method C:\CHEM32\1\METHODS\KAVAL5MIN STD TEST.M

DAD1 C, Sig=246,10 Ref=500,60 (KAVA\_11\_02\_2020\_15MINSTDTESTMETHOD 2020-11-02 15-07-37\014-1401.D)



#	COMPOUND	RET. TIME	AREA	AREA %	AMOUNT
1	methysticin	5.623	1013.242	9.25	0.000
2	dihydromethysticin	5.914	808.538	7.38	0.000
3	kavain	6.460	5382.985	49.13	0.000
4	dihydrokavain	7.076	2176.380	19.86	0.001
5	desmethoxyyangonin	9.176	737.380	6.73	0.000
6	yangonin	9.533	838.421	7.65	0.000

11/3/20  
 YJ